

ORL 18,5–22–30–37–45 V

ORL Variable = cost savings



Advantages of screw compressors with a frequency converter:

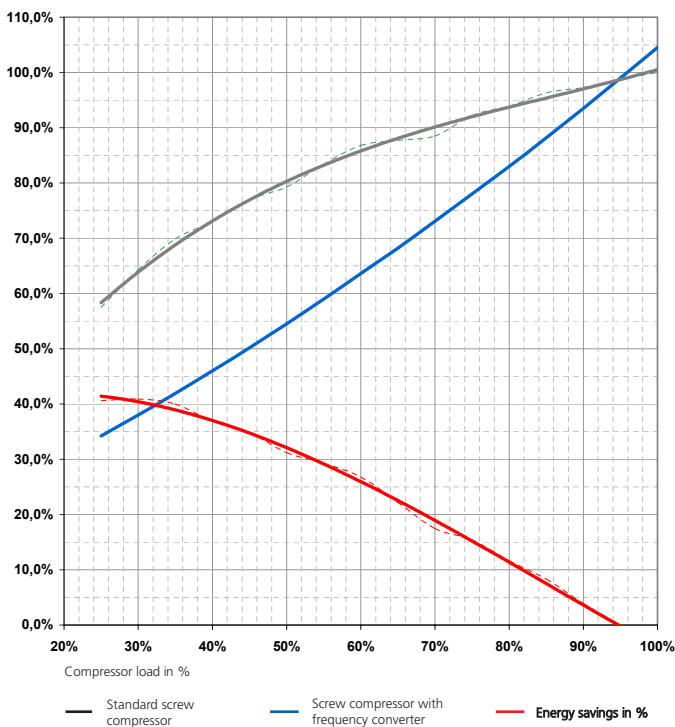
- Continuous regulation of the amount of supplied air
- Possible power savings
- High return of invested means during the first 5 years of compressor operation
- High efficiency
- Minimized losses during the decompression mode
- Constant working overpressure from 6 to 13 bar
- Soft start – no power consumption peaks
- Lower wear and tear of the individual components of the compressors with continuous regulation of revolutions

Compressor type	Maximum overpressure (bar)	Capacity at rated overpressure* (m ³ /hour)	Motor power (kW)	Noise level (dB)	Connection dimension (")	Dimensions LxWxH (mm)
ORL 18,5 AV	8	59–173	18,5	71	G ^{1/2}	1205 x 966 x 1357
ORL 18,5 BV	10	59–151	18,5	71	G ^{1/2}	1205 x 966 x 1357
ORL 18,5 CV	13	72–132	18,5	71	G ^{1/2}	1205 x 966 x 1357
ORL 22 AV	8	59–212	22	72	G ^{1/2}	1205 x 966 x 1357
ORL 22 BV	10	59–188	22	72	G ^{1/2}	1205 x 966 x 1357
ORL 22 CV	13	72–165	22	72	G ^{1/2}	1205 x 966 x 1357
ORL 30 AV	8	59–276	30	73	G ^{1/2}	1205 x 966 x 1357
ORL 30 BV	10	59–245	30	73	G ^{1/2}	1205 x 966 x 1357
ORL 30 CV	13	72–212	30	73	G ^{1/2}	1205 x 966 x 1357
ORL 37 AV	8	118–335	37	74	G ^{1/2}	1500 x 1150 x 1550
ORL 37 BV	10	104–300	37	74	G ^{1/2}	1500 x 1150 x 1550
ORL 37 CV	13	104–246	37	74	G ^{1/2}	1500 x 1150 x 1550
ORL 45 AV	8	138–393	45	75	G ^{1/2}	1500 x 1150 x 1550
ORL 45 BV	10	122–351	45	75	G ^{1/2}	1500 x 1150 x 1550
ORL 45 CV	13	107–304	45	75	G ^{1/2}	1500 x 1150 x 1550

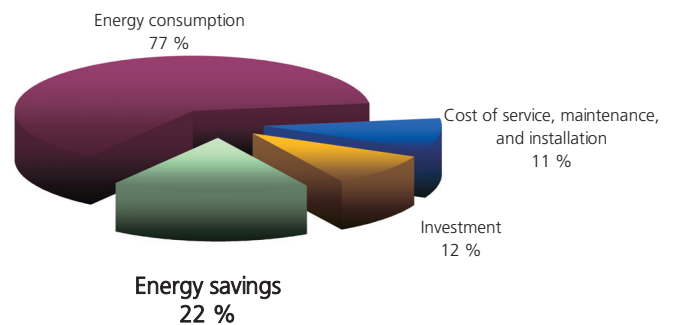
* Capacity measured at these parameters: 8 bar models at 7 bar, 10 bar models at 9 bar, 13 bar models at 12 bar

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Energy savings of a compressor under load



ORL 30 V



The compressor control system is fully secured by the Vacon control unit.

The unit facilitates monitoring of:

- Operating parameters
- Equipment status indication
- Servicing intervals
- Indication of failures
- Operating mode selection
- Possible connection to supporting extended control

Communication can run on industrial bus bars, internet network, and GSM.

As stated above, the screw compressors with a frequency converter feature many advantages compared to the standard screw compressors. The continuous regulation of revolutions, ensuring power consumption corresponding with required air amount production at constant pressure, characterize the compressors with a frequency converter. That means if the quantity of taken compressed air drops, the compressor reduces the amount of supplied air as well as the quantity of consumed power and vice versa. Such type of operation regulation is not possible in the standard screw compressors that work on a load – decompression principle, during which a part of energy is used even during a non-working cycle (decompression).

Your technical advisor: